



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NATIONAL EXPOSURE RESEARCH LABORATORY

HUMAN EXPOSURE & ATMOSPHERIC SCIENCES DIVISION (MD-D205-03)

Research Triangle Park, NC 27711

919-541-3737

Office of

Research and Development

LIST OF DESIGNATED REFERENCE AND EQUIVALENT METHODS

Issue Date: April 3, 2002

(www.epa.gov/ttn/amtic/criteria.html)

These methods for measuring ambient concentrations of specified air pollutants have been designated as "reference methods" or "equivalent methods" in accordance with Title 40, Part 53 of the Code of Federal Regulations (40 CFR Part 53). Subject to any limitations (e.g., operating range or temperature range) specified in the applicable designation, each method is acceptable for use in state or local air quality surveillance systems under 40 CFR Part 58 unless the applicable designation is subsequently canceled. Automated methods for pollutants other than PM₁₀ are acceptable for use only at shelter temperatures between 20°C and 30°C and line voltages between 105 and 125 volts unless wider limits are specified in the method description.

Prospective users of the methods listed should note (1) that each method must be used in strict accordance with its associated operation or instruction manual and with applicable quality assurance procedures, and (2) that modification of a method by its vendor or user may cause the pertinent designation to be inapplicable to the method as modified. (See Section 2.8 of Appendix C, 40 CFR Part 58 for approval of modifications to any of these methods by users.)

Further information concerning particular designations may be found in the *Federal Register* notice cited for each method or by writing to the National Exposure Research Laboratory, Human Exposure and Atmospheric Sciences Division (MD-46), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711. Technical information concerning the methods should be obtained by contacting the source listed for each method. Source addresses are listed at the end of the listing of methods, except for the addresses for lead method sources, which are given with the method. New analyzers or PM₁₀ samplers sold as reference or equivalent methods must carry a label or sticker identifying them as designated methods. For analyzers or PM₁₀ samplers sold prior to the designation of a method with the same or similar model number, the model number does not necessarily identify an analyzer or sampler as a designated method. Consult the manufacturer or seller to determine if a previously sold analyzer or sampler can be considered a designated method or if it can be upgraded to designation status. Analyzer users who experience operational or other difficulties with a designated analyzer or sampler and are unable to resolve the problem directly with the instrument manufacturer may contact EPA (preferably in writing) at the above address for assistance.

This list will be revised as necessary to reflect any new designations or any cancellation of a designation currently in effect. The most current revision of the list will be available for inspection at EPA's Regional Offices, and copies may be obtained at the Internet site identified above or by writing to the National Exposure Research Laboratory at the address specified above.

Most Recent Designations

Teledyne Advanced Pollution Instrumentation Model 300E CO Analyzer	Nov. 21, 2001
Tisch Environmental Model TE-6070 PM ₁₀ High Volume Sampler	April 02, 2002
BGI Models PQ200-VSCC and PQ200A-VSCC PM _{2.5} Sampler	April 02, 2002
R & P Partisol®-FRM Model 2000 PM-2.5 FEM PM _{2.5} Sampler	April 02, 2002
R & P Partisol® Model 2000 PM-2.5 FEM PM _{2.5} Audit Sampler	April 02, 2002
R & P Partisol®-Plus Model 2025 PM-2.5 FEM PM _{2.5} Seq. Sampler	April 02, 2002
Environnement S.A Model AC32M Nitrogen Oxides Analyzer	April 02, 2002

LEAD**Reference Method for Lead****Manual Reference Method: 40 CFR Part 50, Appendix G**

Reference Method for the Determination of Lead in Suspended Particulate Matter Collected from Ambient Air.

[*Federal Register*: Vol. 43, page 46258, 10/05/78]**Energy-Dispersive X-Ray Fluorescence Spectrometry (TNRCC)****Manual Equivalent Method: EQL-0783-058**

"Determination of Lead Concentration in Ambient Particulate Matter by Energy-Dispersive X-Ray Fluorescence Spectrometry (Texas Natural Resource Conservation Commission)" Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, TX 78711-3087.

[*Federal Register*: Vol. 48, page 29742, 06/28/83]**Energy-Dispersive X-Ray Fluorescence Spectrometry (NEA, Inc.)****Manual Equivalent Method: EQL-0589-072**

"Determination of Lead Concentration in Ambient Particulate Matter by Energy-Dispersive X-Ray Fluorescence Spectrometry (NEA, Inc.)" Nuclear Environmental Analysis, Inc., Suite 260, 10950 SW 5th Street, Beaverton, OR 97005.

[*Federal Register*: Vol. 54, page 20193, 05/10/89]**Flame Atomic Absorption Spectrometry****Manual Equivalent Method: EQL-0380-043**"Determination of Lead Concentration in Ambient Particulate Matter by Flame Atomic Absorption Spectrometry Following Ultrasonic Extraction with Heated HNO₃-HCl"[*Federal Register*: Vol. 45, page 14648, 03/06/80]**Flameless Atomic Absorption Spectrometry (EPA/RTP, N.C.)****Manual Equivalent Method: EQL-0380-044**

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless Atomic Absorption Spectrometry (EPA/RTP, N.C.)"

[*Federal Register*: Vol. 45, page 14648, 03/06/80]**Flameless (Graphite Furnace) Atomic Absorption (Houston, Texas)****Manual Equivalent Method: EQL-0895-107**

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless (Graphite Furnace) Atomic Absorption (City of Houston, Texas)." Health and Human Services Department, Environmental Chemistry Service, 1115 S. Braeswood, Houston, TX 77030.

[*Federal Register*: Vol. 60, page 39383, 08/02/95]**Flameless Atomic Absorption Spectrometry (Omaha)****Manual Equivalent Method: EQL-0785-059**

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless Atomic Absorption Spectrometry (Omaha-Douglas County Health Department)" Omaha-Douglas County Health Department, 1819 Farnam Street, Omaha, NE 68183.

[*Federal Register*: Vol. 50, page 37909, 09/18/85]**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Doe Run)****Manual Equivalent Method: EQL-0196-113**

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Doe Run Co.)" Doe Run Company, Smelting Division, 881 Main Street Herculaneum, MO 63048

[*Federal Register*: Vol. 61, page 11404, 03/20/96]**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (EPA/RTP)****Manual Equivalent Method: EQL-0380-045**

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (EPA/RTP, N.C.)"

[*Federal Register*: Vol. 45, page 14648, 03/06/80]**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (IL)****Manual Equivalent Method: EQL-1193-094**

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Illinois)." State of Illinois, Environmental Protection Agency, Champaign Inorganic Laboratory, 2120 South First Street, Champaign, IL 61820

[*Federal Register*: Vol. 58, page 61902, 11/23/93]**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Kansas)****Manual Equivalent Method: EQL-0592-085**

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Kansas)" State of Kansas, Department of Health and Environment, Forbes Field, Building 740, Topeka, KS 66620-0001.

[*Federal Register*: Vol. 57, page 20823, 05/15/92]**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Montana)****Manual Equivalent Method: EQL-0483-057**

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Montana)". State of Montana, Department of Health and Environmental Sciences, Cogswell Building, Helena, MT 59620.

[*Federal Register*: Vol. 48, page 14748, 04/05/83]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (NETI)*Manual Equivalent Method: EQL-1188-069*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Northern Engineering and Testing, Inc.)" Northern Engineering and Testing, Inc., P.O. Box 30615, Billings, MT 59107.

[*Federal Register*: Vol. 53, page 44947, 11/07/88]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (NH)*Manual Equivalent Method: EQL-1290-080*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of New Hampshire)" State of New Hampshire, Department of Environmental Services, Laboratory Service Unit, 6 Hazen Drive (P.O. Box 95), Concord, NH 03302-0095.

[*Federal Register*: Vol. 55, page 49119, 11/26/90]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (PA)*Manual Equivalent Method: EQL-0592-086*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Commonwealth of Pennsylvania)" Commonwealth of Pennsylvania, Department of Environmental Resources, P.O. Box 2357, Harrisburg, PA 17105-2357.

[*Federal Register*: Vol. 57, page 20823, 05/15/92]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Pima, AZ)*Manual Equivalent Method: EQL-0995-109*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Pima County, Arizona)." Pima County, Wastewater Management Department, 201 North Stone Avenue, Tucson, Arizona 85701-1207.

[*Federal Register*: Vol. 60, page 54684, 10/25/95]

Inductively Coupled Argon Plasma-Mass Spectrometry (Pima Co., AZ)*Manual Equivalent Method: EQL-0995-110*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma-Mass Spectrometry (Pima County, Arizona)." Pima County, Wastewater Management Department, 201 North Stone Avenue, Tucson, Arizona 85701-1207.

[*Federal Register*: Vol. 60, page 54684, 10/25/95]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (RI)*Manual Equivalent Method: EQL-0888-068*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Rhode Island)," State of Rhode Island Department of Health, Air Pollution Laboratory, 50 Orms Street, Providence, RI 02904

[*Federal Register*: Vol. 53, page 30866, 08/16/88]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Silver Valley)*Manual Equivalent Method: EQL-1288-070*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Silver Valley Laboratories)," Silver Valley Laboratories, Inc., P.O. Box 929, Kellogg, ID 83837.

[*Federal Register*: Vol. 53, page 48974, 12/05/88]

Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (TNRCC)*Manual Equivalent Method: EQL-0400-140*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (TNRCC)," Texas Natural Resource Conservation Commission Laboratory, 5144 E. Sam Houston Parkway N., Houston, TX 77030.

[*Federal Register*: Vol. 65, page 26603, 5/8/00]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (WV)*Manual Equivalent Method: EQL-0694-096*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of West Virginia)." State of West Virginia, Department of Commerce, Labor and Environmental Resources, Division of Environmental Protection, 1558 Washington Street East, Charleston, WV 25311-2599

[*Federal Register*: Vol. 59, page 29429, 06/07/94]

Wavelength Dispersive X-Ray Fluorescence Spectrometry (CA)*Manual Equivalent Method: EQL-0581-052*

"Determination of Lead Concentration in Ambient Particulate Matter by Wavelength Dispersive X-Ray Fluorescence Spectrometry" California Department of Health Services, Air & Industrial Hygiene Laboratory, 2151 Berkeley Way, Berkeley, CA 94704.

[*Federal Register*: Vol. 46, page 29986, 06/04/81]

NOTES

¹ Users should be aware that designation of this analyzer for operation on ranges less than the range specified in the performance specifications for this analyzer (40 CFR 53, Subpart B) is based on meeting the same absolute performance specifications required for the specified range. Thus, designation of these lower ranges does not imply commensurably better performance than that obtained on the specified range.

² This analyzer is approved for use, with proper factory configuration, on either 50 or 60 Hertz line frequency and nominal power line voltages of 115 Vac and 230 Vac.

Sources or Contacts for Designated Reference and Equivalent Methods

ABB Process Analytics
P.O. Box 831
Lewisburg, WV 24901
(304) 647-4358

(Teledyne) Advanced Pollution
Instrumentation, Inc.
6565 Nancy Ridge Drive
San Diego, CA 92121-2251
(619) 657-9800
www.advpol.com

Andersen Instruments
500 Technology Court
Smyrna, GA 30082-9211
(800) 241-6898
www.anderseninstruments.com

ASARCO Incorporated
3422 South 700 West
Salt Lake City, UT 84119
(801) 262-2459

Beckman Instruments, Inc.
Process Instruments Division
2500 Harbor Blvd.
Fullerton, CA 92634
(714) 871-4848

Bendix
[Refer to ABB Process Analytics]

BGI Incorporated
58 Guinan Street
Waltham, MA 02451
(781) 891-9380
www.bgiusa.com (bgiinc@attglobal.net)

Columbia Scientific Industries
11950 Jollyville Road
Austin, TX 78759
(800) 531-5003

Combustion Engineering
[Refer to ABB Process Analytics]

Dasibi Environmental Corp.
506 Paula Avenue
Glendale, CA 91201
(818) 247-7601
www.dasibi.com

DKK-TOA Corporation
29-10, 1-Chome, Takadanobaba,

Shinjuku-ku
Tokyo 169-8648, Japan
www.toadkk.co.jp

Environnement S.A
111, bd Robespierre
78300 Poissy, France
www.environnement-sa.com
Instruments also available from:
Altech/Environnement U.S.A.
2623 Kaneville Court
Geneva, IL 60134
(630) 262-4400
rbrown@altechusa.com

Envronics, Inc.
69 Industrial Park Rd. E.
Tolland, CT 06084-2805
(203) 429-0077
www.envronics.com

Graseby GMW
[Refer to Andersen Instruments]
Horiba Instruments Incorporated
17671 Armstrong Avenue
Irvine, CA 92714
(800) 446-7422
www.horiba.com

Lear Siegler
[Refer to Monitor Labs, Inc.]

Commonwealth of Massachusetts
Department of Environmental
Quality Engineering
Tewksbury, MA 01876

Met One Instruments, Inc.
1600 Washington Blvd.
Grants Pass, OR 97526
(541) 471-7111
www.metone.com (metone@metone.com)

McMillan
[Refer to Columbia Scientific Industries]

Mine Safety Appliances
600 Penn Center Blvd.
Pittsburgh, PA 15235-5810
(412) 273-5101

Monitor Labs, Inc.
74 Inverness Drive
Englewood, CO 80112-5189
(800) 422-1499
www.monitorlabs.com

Opsis AB, Furulund, Sweden
Instruments also available from:
Opsis, Inc.
146-148 Sound Beach Avenue
Old Greenwich, CT 06870
(203) 698-1810
www.opsis.se

State of Oregon
Department of Environmental Quality
Air Quality Division
811 S.W. Sixth Avenue
Portland, OR 97204

PCI Ozone Corp.
One Fairfield Crescent
West Caldwell, NJ 07006
(201) 575-7052
www.pci-wedeco.com

Phillips Electronic Instruments, Inc.
85 McKee Drive
Mahwah, NJ 07430

Rupprecht & Patashnick Co., Inc.
25 Corporate Circle
Albany, NY 12203
(518) 452-0065
www.rpco.com

Sibata Scientific Technology, Ltd.
1-25, 3-chome
Ikenohata, Taito-ku
Tokyo 110, Japan
81-3(3822)2272
TTani@email.msn.com

Teledyne Analytical Instruments
16830 Chestnut Street
City of Industry, CA 91748
(626) 934-1622

Thermo Environmental Instruments, Inc.
8 West Forge Parkway
Franklin, MA 02038
(508) 520-0430
www.thermoei.com

Tisch Environmental, Inc.
145 S. Miami Avenue
Village of Cleves, OH 45002
(513) 467-9000
www.tisch-env.com

URG Corporation
116 Merritt Mill Road
Chapel Hill, NC 27516
(919) 942-2753

U.S. EPA
National Exposure Research Laboratory
Human Exposure & Atmospheric
Sciences Division (MD-46)
Research Triangle Park, NC 27711
(919) 541-2622
www.epa.gov/heasd

Wedding and Associates, Inc.
[Refer to Thermo Environmental
Instruments, Inc.]

U.S. EPA REFERENCE & EQUIVALENT METHODS FOR AMBIENT AIR

April 03, 2002

<u>Method</u>	<u>Designation Number</u>	<u>Method Code</u>	<u>Method</u>	<u>Designation Number</u>	<u>Method Code</u>
<u>SO Manual Methods</u>					
Reference method (pararosaniline)	--	097	Lear Siegler or Monitor Labs ML9830,	RFCA-0992-088	088
Technicon I (pararosaniline)	EQS-0775-001	097	Monitor Labs ML9830B, Wedding 1020	RFCA-1280-050	050
Technicon II (pararosaniline)	EQS-0775-002	097	MASS - CO 1 (Massachusetts)	RFCA-0979-041	041
			Monitor Labs 8310	RFCA-0388-066	066
			Monitor Labs or Lear Siegler 8830	RFCA-0177-018	018
			MSA 202S		
			Teledyne Advanced Pollution Instr. 300 or 300E		
			RFCA-1093-093	093	
			Thermo Electron or Thermo		
			Environmental Instruments 48, 48C	RFCA-0981-054	054
<u>SO Analyzers</u>					
Advanced Pollution Instr. 100	EQSA-0990-077	077			
Advanced Pollution Instr. 100A or					
Teledyne Analytical Instruments 6400A	EQSA-0495-100	100			
Asarco 500	EQSA-0877-024	024			
Beckman 953	EQSA-0678-029	029			
Bendix 8303	EQSA-1078-030	030			
Columbia Scientific Industries 5700	EQSA-0494-095	095			
Dasibi 4108	EQSA-1086-061	061			
DKK-TOA Corp. Model GFS-32	EQSA-0701-115	115			
DKK-TOA Corp. Model GFS-112E	EQSA-0100-133	133			
Environnement S.A. AF21M	EQSA-0292-084	084			
Environnement S.A. SANOA	EQSA-0400-138	138			
Horiba Model APSA-360/APSA-360ACE	EQSA-0197-114	114			
Lear Siegler AM2020	EQSA-1280-049	049			
Lear Siegler SM1000	EQSA-1275-005	005			
Lear Siegler or Monitor Labs ML9850,					
Monitor Labs ML9850B, Wedding 1040	EQSA-0193-092	092			
Meloy SA185-2A	EQSA-1275-006	006			
Meloy SA285E	EQSA-1078-032	032			
Meloy SA700	EQSA-0580-046	046			
Monitor Labs 8450	EQSA-0876-013	513			
Monitor Labs or Lear Siegler 8850	EQSA-0779-039	039			
Monitor Labs or Lear Siegler 8850S	EQSA-0390-075	075			
Opsis AR 500, System 300 (open path)	EQSA-0495-101	101			
Philips PW9700	EQSA-0876-011	511			
Philips PW9755	EQSA-0676-010	010			
Thermo Electron 43	EQSA-0276-009	009			
Thermo Electron 43A or Thermo					
Environmental Instruments 43B, 43C	EQSA-0486-060	060			
<u>O Analyzers</u>					
Advanced Pollution Instr. 400/400A	EQOA-0992-087	087			
Beckman 950A	RFOA-0577-020	020			
Bendix 8002	RFOA-0176-007	007			
Columbia Scientific Industries 2000	RFOA-0279-036	036			
Dasibi 1003-AH, -PC, -RS	EQOA-0577-019	019			
Dasibi 1008-AH, -PC, -RS	EQOA-0383-056	056			
DKK-TOA Corp. Model GUX-113E	EQOA-0200-134	134			
Envirionics 300	EQOA-0990-078	078			
Environnement S.A. O41M	EQOA-0895-105	105			
Environnement S.A. SANOA	EQOA-0400-137	137			
Horiba APOA-360	EQOA-0196-112	112			
Lear Siegler or Monitor Labs ML9810,					
Monitor Labs ML9810B, Wedding 1010	EQOA-0193-091	091			
McMillan 1100-1	RFOA-1076-014	514			
McMillan 1100-2	RFOA-1076-015	515			
McMillan 1100-3	RFOA-1076-016	016			
Meloy OA325-2R	RFOA-1075-003	003			
Meloy OA350-2R	RFOA-1075-004	004			
Monitor Labs 8410E	RFOA-1176-017	017			
Monitor Labs or Lear Siegler 8810	EQOA-0881-053	053			
Opsis AR 500, System 300 (open path)	EQOA-0495-103	103			
PCI Ozone Corp. LC-12	EQOA-0382-055	055			
Philips PW9771	EQOA-0777-023	023			
Thermo Electron or Thermo					
Environmental Instruments 49, 49C	EQOA-0880-047	047			
<u>CO Analyzers</u>					
Beckman 866	RFCA-0876-012	012			
Bendix 8501-5CA	RFCA-0276-008	008			
Dasibi 3003	RFCA-0381-051	051			
Dasibi 3008	RFCA-0488-067	067			
Environnement s.a. CO11M	RFCA-0995-108	108			
Horiba AQM-10, -11, -12	RFCA-1278-033	033			
Horiba 300E/300SE	RFCA-1180-048	048			
Horiba APMA-360	RFCA-0895-106	106			
<u>Pb Manual Methods</u>					
Reference method (hi-vol/AA spect.)	--				803
Hi-vol/AA spect. (alt. extr.)	EQL-0380-043				043
Hi-vol/Energy-disp XRF (TX ACB)	EQL-0783-058				058
Hi-vol/Energy-disp XRF (NEA)	EQL-0589-072				072
Hi-vol/Flameless AA (EMSL/EPA)	EQL-0380-044				044
Hi-vol/Flameless AA (Houston)	EQL-0895-107				107
Hi-vol/Flameless AA (Omaha)	EQL-0785-059				059
Hi-vol/ICAP spect. (Doe Run Co.)	EQL-0196-113				
113					
Hi-vol/ICAP spect. (EMSL/EPA)	EQL-0380-045				045
Hi-vol/ICAP spect. (Illinois)	EQL-1193-094				094
Hi-vol/ICAP spect. (Kansas)	EQL-0592-085				085
Hi-vol/ICAP spect. (Montana)	EQL-0483-057				057
Hi-vol/ICAP spect. (NE&T)	EQL-1188-069				069
Hi-vol/ICAP spect. (New Hampshire)	EQL-1290-080				080
Hi-vol/ICAP spect. (Pennsylvania)	EQL-0592-086				086
Hi-vol/ICAP spect. (Pima Co., AZ)	EQL-0995-109				109
Hi-vol/ICAP spect. (Pima Co., AZ)	EQL-0995-110				110
Hi-vol/ICAP spect. (Rhode Island)	EQL-0888-068				068
Hi-vol/ICAP spect. (Silver Val. Labs)	EQL-1288-070				070
Hi-vol/ICAP spect. (TNRCC)	EQL-0400-140				140
Hi-vol/ICAP spect. (West Virginia)	EQL-0694-096				096
Hi-vol/WL-disp. XRF (CA A&IHL)	EQL-0581-052				052
<u>PM₁₀ Samplers</u>					
Andersen Instruments RAAS10-100	RFPS-0699-130				
Andersen Instruments RAAS10-200	RFPS-0699-131				131

Andersen Instruments RAAS10-300	RFPS-0699-132	132
BGI Model PQ100	RFPS-1298-124	124
BGI Model PQ200	RFPS-1298-125	125
Oregon DEQ Medium volume sampler	RFPS-0389-071	071
Rupprecht & Patashnick Partisol 2000	RFPS-0694-098	098
R & P Partisol-FRM Model 2000	RFPS-1298-126	126
R & P Partisol-Plus Model 2025 Seq.	RFPS-1298-127	127
Sierra-Andersen/GMW 1200	RFPS-1287-063	063
Sierra-Andersen/GMW 321-B	RFPS-1287-064	064
Sierra-Andersen/GMW 321-C	RFPS-1287-065	065
Sierra-Andersen/GMW 241 Dichot.	RFPS-0789-073	073
Tisch Environmental Model TE-6070	RFPS-0202-141	141
W&A/Thermo Electron Mod 600 HVL	RFPS-1087-062	062

PM₁₀ Analyzers

Andersen Instruments Beta FH62I-N	EQPM-0990-076	076
Met One BAM1020, GBAM1020, BAM1020-1, GBAM1020-1	EQPM-0798-122	122
R & P TEOM 1400, 1400a	EQPM-1090-079	079
W&A/Thermo Electron 650 Beta Gauge	EQPM-0391-081	081

PM_{2.5} Samplers

Andersen Model RAAS2.5-200 Audit	RFPS-0299-128	128
BGI PQ200/200A	RFPS-0498-116	116
BGI PQ200-VSCC or PQ200A-VSCC	EQPM-0202-142	142
Graseby Andersen RAAS2.5-100	RFPS-0598-119	119
Graseby Andersen RAAS2.5-300	RFPS-0598-120	120
R & P Partisol-FRM 2000 PM-2.5	RFPS-0498-117	117
R & P Partisol-FRM 2000 PM-2.5 FEM	EQPM-0202-143	143
R & P Partisol 2000 PM-2.5 Audit	RFPS-0499-129	129
R & P Partisol 2000 PM-2.5 FEM Audit	EQPM-0202-144	144
R & P Partisol-Plus 2025 PM-2.5 Seq.	RFPS-0498-118	118
R & P Partisol-Plus 2025 PM-2.5 FEM Seq.	EQPM-0202-145	145
Thermo Environmental Model 605 CAPS	RFPS-1098-123	123
URG-MASS100	RFPS-0400-135	135
URG-MASS300	RFPS-0400-136	136

TSP Manual Method

Reference method (high-volume)	--	802
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